



Kimley-Horn
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Memorandum

To: Mr. Ahmad Nemati, P.E.
Shelby County Government

From: R. Kevin Eason, P.E.

Date: September 23, 2008

Subject: Shelby County Congestion Management Program
Currently Proposed Work for Fiscal Years 2009-2011

At your request, please find below a description of proposed work for the above referenced project. The structure of this program is purposefully flexible to best meet the changing needs of Shelby County. As such the plan is subject to modification.

Proposed Work

Construction of Project Set #3

Canada Road at Interstate 40:

- Roadway construction to include a right turn lane on Ramp C, a right turn lane on Canada Road to Ramp D, and a right turn lane on Canada Road to Ramp A. Construction of an earth retaining structure near Ramp D and installation of a new traffic signal.

Raleigh Lagrange Road at Macon Road/Dexter Road:

- Roadway construction including installation of drainage and installation of a new traffic signal including video vehicle detection and emergency vehicle preemption equipment.

Construction of Project Set #4

Germantown Road at Farmington Boulevard:

- Roadway construction to include an additional westbound lane on Farmington Boulevard just west of Germantown Road. Roadway construction also to include removal of existing median and construction of a new median to accommodate an additional eastbound left turn lane. Installation of a new irrigation system in the new median. Installation of concrete handicap ramps (retrofit). Removal of existing traffic signal and



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installation of a new traffic signal including video vehicle detection and emergency vehicle preemption equipment.

Design and Construction of Six New Traffic Signals

- Poplar Avenue at Oakleigh Lane
- Frank Road at Bray Station Road
- Poplar Avenue at Collierville Arlington Road
- Poplar Avenue at Forrest Hill-Irene Road
- Allowed for two other traffic signals, yet to be determined

Vehicle Detection Upgrade

Typical detection upgrades include installation of in-pavement wire loops or video cameras, and emergency vehicle preemption detectors. We anticipate doing more installations of in-pavement wire loops to make better use of available funding. Before and after air quality analyses will be performed to quantify the reduction of emissions resulting from improvements in the operation of the traffic signals.

Signalized Intersection Operational Improvements

Typically, the improvements at these intersections will involve the implementation of signal timing or phasing modifications that reflect the changes in traffic patterns that occur. These projects will also include the implementation of signalized intersection improvements and the fine-tuning of the signal timing improvements in the field. Before and after air quality analyses will be performed to quantify the reduction of emissions resulting from the signalized intersection improvements.

Other types of work that may be provided are described in the original contract scope of services.

If you have any questions about this information, please feel free to contact me.

Very truly yours,

KIMLEY-HORN AND ASSOCIATES, INC.

Riley K. Eason, P.E.